

522,955

Rec'd PCT/PTC 31 JAN 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
5 February 2004 (05.02.2004)

PCT

(10) International Publication Number
WO 2004/010995 A1

(51) International Patent Classification⁷: **A61K 31/416**,
31/42, A61P 29/00, C07D 413/04, 413/14, 413/12,
261/20, 417/12, 417/14, 231/56, 405/12, 409/12, 403/12,
209/18, 277/82

SG1 2NY (GB). LONGSTAFF, Timothy [GB/GB];
GlaxoSmithKline, Gunnels Wood Road, Stevenage,
Hertfordshire SG1 2NY (GB). SWANSON, Stephen
[GB/GB]; GlaxoSmithKline, Gunnels Wood Road, Steve-
nage, Hertfordshire SG1 2NY (GB).

(21) International Application Number:

PCT/GB2003/003316

(74) Agent: GIDDINGS, Peter, John; GlaxoSmithKline,
Corporate Intellectual Property CN925.1, 980 Great West
Road, Brentford, Middlesex TW8 9GS (GB).

(22) International Filing Date: 30 July 2003 (30.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0217757.4 31 July 2002 (31.07.2002) GB

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant (*for all designated States except US*):
SMITHKLINE BEECHAM CORPORATION
[US/US]; One Franklin Plaza, P.O. Box 7929, Philadel-
phia, PA 19101 (US).

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

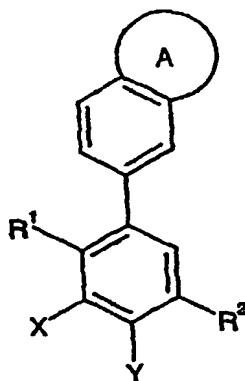
(75) Inventors/Applicants (*for US only*): ANGELL, Richard,
Martyn [GB/GB]; Arrow Therapeutics Ltd, Britannia
House, 7 Trinity Street, London SE1 1DA (GB). BALD-
WIN, Ian, Robert [GB/GB]; GlaxoSmithKline, Gunnels
Wood Road, Stevenage, Hertfordshire SG1 2NY (GB).
BAMBOROUGH, Paul [GB/GB]; GlaxoSmithKline,
Gunnels Wood Road, Stevenage, Hertfordshire SG1 2NY
(GB). DEBOECK, Nigel, Marc [GB/GB]; GlaxoSmithK-
line, Gunnels Wood Road, Stevenage, Hertfordshire

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: FUSED HETEROARYL DERIVATIVES FOR USE AS P38 KINASE INHIBITORS IN THE TREATMENT OF I.A. RHEUMATOID ARTHRITIS



(I)

(57) Abstract: Compounds of formula (I): wherein A is a 5-membered heteroaryl ring are inhibitors of p38 kinase and are useful in the treatment of conditions or disease states mediated by p38 kinase activity or mediated by cytokines produced by the activity of p38, such as rheumatoid arthritis.

WO 2004/010995 A1